

RADION contact SM

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Invented for life



- ▶ An internal magnetic reed switch contact
- ▶ Supervised for low-battery, cover-tamper, and removal from mounting surface tamper conditions.
- ▶ Operational up to 5 years using a single user replaceable AAA lithium battery

RADION wireless from Bosch provides the range, scalability and exceptional battery life required to ensure reliable performance and superior quality. Advanced diagnostics and multiple device enrollment options make installation and maintenance simple and cost effective. With a complete line of peripherals, RADION provides the flexibility for virtually any application requirement.

System overview

RADION contact SM provides a magnetic reed switch contact for monitoring doors and windows. The internal reed contact is activated by an external magnet assembly which can be placed on either side of the transmitter. It also has a built-in wall and cover tamper switch that transmits a tamper signal when someone removes the device from its base or pulls away from the wall.

Functions

Reed Contacts

There is a reed contact on either side of the device, so the magnet assembly can be mounted within 20 mm (0.78 in) of the device on either side. When the distance between the magnet and the internal reed

switch of the contact exceeds 20 mm (0.78 in), an alarm signal is sent to the receiver, and from there, to the compatible control panel.

Certifications and approvals

Region	Certificate
US	UL 634 Connectors and Switches for use with Burglar Alarm Systems

Region	Certification	
Europe	CE	2004/108EC EMC Directive (EMC), 2006/95/EC Low-Voltage Directive (LVD), 1999/5/EC Radio equipment and Telecommunications Terminal Equipment (R&TTE), 2011/65/EU Restriction of the use of certain hazardous substances in electrical and electronic equipment
	EN50131	EN-ST-000160 RADION contact SM/ RFDW-SM
USA	UL	20121218-BP8028 UL 634 and UL 1023 Certificate of Compliance
	CSFM	7272-1615:0249 [-A]
	FCC	Part 15 Security/Remote Control Transmitter 433.42 MHZ [433.42 MHZ]

Region	Certification	
Canada	IC	1249A-RWSSFT [-A model numbers]
China	CCC	2013031901000110
Brazil	ANATEL	2798-13-1855

Installation/configuration notes

Mounting Considerations

Mount the transmitter on an interior door or window frame, and the magnet assembly on the interior of the moving portion of the door or window. Ensure that the transmitter is protected from weather elements such as extreme temperatures, humidity, rain or snow.



Notice

Installation on metal surfaces can affect the RF propagation pattern of the radio transceiver.

Installing the plastic magnet cover flush against the door or window will prevent possible damage to the plastic magnet cover.

Parts included

Quantity	Component
1	Detector
1	Magnet assembly
1	Lithium battery (AAA)
1	Hardware pack
1	Installation guide

Technical specifications

Properties

Dimensions: Transmitter	19.5 mm x 82.55 mm x 12.8 mm (0.76 in x 3.25 in x 0.50 in)
Dimensions: Magnet	18.5 mm x 24.5 mm x 12.5 mm (0.72 in x 0.97 in x 0.49 in)

Power

Power/Voltage:	1.5 VDC
Battery type:	AAA Lithium
Battery life:	Up to 5 years

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Environmental Considerations

Temperature:	Functional range: -10°C to +49° (+14°F to +120°F) UL only: 0°C to +49°C (+32°F to +120°F) EN 50130-5 Class II only: -10°C to 40°C (+14°F to +104°F)
Environment	Complies with EN50130-5 Class II
Relative Humidity:	Up to 93% non-condensing
Cover and Wall Tamper Switch:	Transmits a tamper switch signal when the detector is removed from its base, or the unit is pulled away from the ceiling.
Frequency:	433.42 MHz
Use:	Intended for indoor use.

Compatibility

Receivers:	B810 wireless receiver (compatible with RFDW-SM-A only) RFRC-OPT wireless receiver (compatible with RFDW-SM only) RFRC-OPT-CHI wireless receiver (compatible with RFDW-SM-CHI only)
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Ordering information

RFDW-SM-A (433.42 MHz)

For use in North and South America
Order number **RFDW-SM-A**

RFDW-SM (433.42 MHz)

For use in Europe, Africa, and Australia.
Order number **RFDW-SM**

RFDW-SM-CHI (433.42 MHz)

For use in China only.
Order number **RFDW-SM-CHI**

Accessories

RADION spacer kit (RFAC-DW-10)

Package of 10 base spacers and 10 magnet spacers for RADION Door/Window surface mount contacts.
Order number **RFAC-DW-10**